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## (54) TRANSMISSION POWER CONTROL METHOD AND TRANSMISSION POWER CONTROLLER

(57)Abstract:

**PURPOSE:** To reduce the effect on other mobile station by selecting an open loop control to set transmission power of a mobile station in response to a change in a desired reception power of a mobile station when the reception signal power of the mobile station is suddenly increased so as to reduce the transmission power of the mobile station in a short time.

**CONSTITUTION:** A mobile station 100 measures an average desired wave reception signal power per one transmission power control period from a base station 200 and calculates an average power of a desired wave reception signal in the unit of the transmission power control period and in the unit of transmission power control of one preceding time or over. When a desired wave reception average power difference  $\Delta R_{SSI}$  exceeds a reference power difference  $\Delta P_{th}$ , it is interpreted that the mobile station appears at a location seen through from a shadow of a building (shadowing state). In this case, the desired wave reception signal power  $S$  in the base station is rapidly increased. On the other hand, the interference power from other mobile station is not so much increased. Instead, interference is imposed upon other mobile station. Then the intensity of the signal sent from the base station is measured by the mobile station by open loop control and the reception signal is high, then the power of the signal sent to the base station is reduced.

